Application No. 10/809,698 Docket No. 5165.1460 Customer No.: 66060

AMENDMENTS TO THE CLAIMS

A complete listing of the claims is provided below. This listing of claims will replace all prior versions and listings of claims in the application:

- 1-39 (Canceled)
- 40. (Currently Amended) An ultrasonic blade comprising:
- a blade body defined about a body axis <u>extending between a first side and a second</u> side of said blade body;
- a first surface having a first curve about a first surface axis, said first surface extending continuously from said first side to said second side of said blade body;
- a second surface having a second curve about a second surface axis, said second surface extending continuously from said first side to said second side of said blade body; and
- a cutting edge on the blade body defined by the intersection of the first surface and the second surface, the cutting edge comprising a first straight portion connected to a second straight portion via a curved portion.
- 41. **(Previously presented)** The ultrasonic blade according to claim 40, wherein the cutting edge is a substantially continuous profile spanning a width of the blade body.
- 42. **(Previously presented)** The ultrasonic blade according to claim 40, wherein the first straight portion and second straight portion are angled back towards the blade body at about 30° relative to a line perpendicular from the body axis.
- 43. **(Previously presented)** The ultrasonic blade according to claim 40, wherein the curved portion is defined by a radius of about 0.04 inches.
- 44. **(Previously presented)** The ultrasonic blade according to claim 40, wherein the blade body is comprised of a metal.
- 45. **(Previously presented)** The ultrasonic blade according to claim 44, wherein the blade body is comprised of a high speed steel.

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body is comprised of a carbide steel.

46. (Previously presented) The ultrasonic blade according to claim 44, wherein the blade

47. **(Previously presented)** The ultrasonic blade according to claim 40, wherein the first surface is curved about the first surface axis with a radius of about 0.171 inches.

48. **(Previously presented)** The ultrasonic blade according to claim 40, wherein the second surface is curved about the second surface axis with a radius of about 0.171 inches.

49. **(Currently Amended)** An ultrasonic blade for cutting a composite prepreg, the ultrasonic blade comprising:

a blade body defined about a body axis <u>extending between a first side and a second</u> side of said blade body;

a first surface having a first curve about a first surface axis, said first surface extending continuously from said first side to said second side of said blade body;

a second surface having a second curve about a second surface axis, said second surface extending continuously from said first side to said second side of said blade body; and

a cutting edge on the blade body defined by the intersection of the first surface and the second surface, the cutting edge comprising a first straight portion connected to a second straight portion via a curved portion, the curved portion crosses the body axis at a relatively distal point of the blade body, wherein the ultrasonic blade is configured to receive ultrasonic vibrational energy to cut the composite prepreg.

- 50. **(Previously presented)** The ultrasonic blade according to claim 49, wherein the cutting edge is a substantially continuous profile spanning a width of the blade body.
- 51. **(Previously presented)** The ultrasonic blade according to claim 49, wherein the first straight portion and second straight portion are angled back towards the blade body at about 30° relative to a line perpendicular from the body axis.
- 52. **(Previously presented)** The ultrasonic blade according to claim 49, wherein the body axis, first surface axis and second surface axis substantially converge at a point.

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53. **(Previously presented)** The ultrasonic blade according to claim 49, wherein the curved portion is defined by a radius of about 0.04 inches.

- 54. **(Previously presented)** The ultrasonic blade according to claim 49, wherein the blade body is comprised of a metal.
- 55. **(Previously presented)** The ultrasonic blade according to claim 54, wherein the blade body is comprised of a high speed steel.
- 56. **(Previously presented)** The ultrasonic blade according to claim 54, wherein the blade body is comprised of a carbide steel.
- 57. **(Previously presented)** The ultrasonic blade according to claim 49, wherein the first surface is curved about the first surface axis with a radius of about 0.171 inches and the second surface is curved about the second surface axis with a radius of about 0.171 inches.
- 58. (Currently Amended) An ultrasonic blade for cutting a titanium graphite composite, the ultrasonic blade comprising:
- a blade body defined about a body axis <u>extending between a first side and a second side of said blade body;</u>
- a first surface having a first curve about a first surface axis, said first surface extending continuously from said first side to said second side of said blade body;
- a second surface having a second curve about a second surface axis, said second surface extending continuously from said first side to said second side of said blade body; and
- a cutting edge on the blade body defined by the intersection of the first surface and the second surface, the cutting edge comprising a first straight portion connected to a second straight portion via a curved portion, the curved portion crosses the body axis at a relatively distal point of the blade body, wherein the ultrasonic blade is configured to receive ultrasonic vibrational energy to cut the titanium graphite composite.
- 59. **(Previously presented)** The ultrasonic blade according to claim 48, wherein the cutting edge is a substantially continuous profile spanning a width of the blade body.

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60. (**Previously presented**) The ultrasonic blade according to claim 58, wherein the first straight portion and second straight portion are angled back towards the blade body at about 30° relative to a line perpendicular from the body axis.

- 61. **(Previously presented)** The ultrasonic blade according to claim 58, wherein the body axis, first surface axis and second surface axis substantially converge at a point.
- 62. **(Previously presented)** The ultrasonic blade according to claim 58, wherein the curved portion is defined by a radius of about 0.04 inches.
- 63. **(Previously presented)** The ultrasonic blade according to claim 58, wherein the first surface is curved about the first surface axis with a radius of about 0.171 inches and the second surface is curved about the second surface axis with a radius of about 0.171 inches.
- 64. (New) An ultrasonic blade comprising:

a body having a longitudinally extending axis and a first side and a second side; and a first cambered surface and a second cambered surface on said body, each said cambered surface extending from said first side to said second side,

said first and second cambered surfaces defining a cutting edge on said body having a first substantially straight blade portion on the first side of said body connected to a second substantially straight portion blade portion on the second side of said body by a curved blade portion to form a substantially continuous blade profile.

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